

The experience and dedication you deserve



Report of the Actuary on the Annual Valuation of the Shelby County Retirement System

Prepared as of June 30, 2012





The experience and dedication you deserve

October 29, 2012

Board of Commissioners Shelby County Retirement System 160 North Main Street, Suite 950 Memphis, TN 38103

Members of the Board:

We are pleased to submit the results of the actuarial valuation of the Shelby County Retirement System prepared as of June 30, 2012. The purpose of this report is to provide a summary of the funded status of the System as of June 30, 2012, to recommend rates of contribution and to provide accounting information under Governmental Accounting Standards Board Statements No. 25 and 27 (GASB 25 and 27).

On the basis of the valuation, it is recommended that employer contributions to the System be set at a rate of 12.75% of payroll for the fiscal year ending June 30, 2014. The promised benefits of the System are included in the calculated contribution rate which is developed using the projected unit credit cost method. Ten-year smoothed market value of plan assets is used for the actuarial value of assets. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions within a 28-year period. The initial obligation for Plan C is being amortized by annual contributions within a 14-year period.

Since the previous valuation, no changes were made to the assumptions, methods, or plan provisions.

The valuation has been prepared in accordance with the parameters set forth in Statement Nos. 25 and 27 of the Governmental Accounting Standards Board. The annual required contribution (ARC) for the County under GASB for the fiscal year ending June 30, 2014 is 12.75% of payroll, based on a weighted 23-year period for amortization of the unfunded accrued liability.

We have prepared the Schedule of Active Member Valuation Data, Schedule of Retirees and Beneficiaries, and the Analysis of Financial Experience for the actuarial section of the Annual Report and the Schedule of Funding Progress for the financial section of the Annual Report.

This is to certify that the independent consulting actuary is a Member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the System and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System. While not verifying the data at source, the actuary performed tests for consistency and reasonability.



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Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

We trust that the report will meet the approval of the Board and will furnish the desired information concerning the financial condition of the System.

Respectfully submitted,

Edward J. Koebel, EA, FCA, MAAA Principal and Consulting Actuary

EAM/EJK:bdm

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Edward A. Macdonald, ASA, FCA, MAAA President

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# SHELBY COUNTY RETIREMENT SYSTEM REPORT OF THE ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2012

## SECTION I - SUMMARY OF PRINCIPAL RESULTS

 For convenience of reference, the principal results of the current and preceding valuations are summarized below.

Valuation Date	June 30, 2012	June 30, 2011
Active members:		
Number	5,880	6,049
Annualized compensation	\$ 258,670,354	\$ 265,136,755
Retired members and beneficiaries:		*
Number	3,174	3,056
Annual allowances	\$ 59,872,282	\$ 55,337,839
Number of participants with deferred benefits	268	294
Assets:		
Market Value	\$ 915,990,681	\$ 982,539,680
Actuarial Value	1,090,209,692	1,066,406,318
Unfunded actuarial accrued liability	\$ 151,755,774	\$ 120,382,145
Weighted Amortization Period	23 years	23 years
Funding Ratio	87.8%	89.9%
Fiscal Year Ending	June 30, 2014	June 30, 2013
County annual required contribution rate (ARC):		
Normal	7.49%	7.93%
Accrued liability	<u>5.26</u>	4.08
Total	12.75%	12.01%

 The major benefit and contribution provisions of the Plan as reflected in the valuation are summarized in Schedule E. There have been no changes since the previous valuation.



- 3. Schedule D of this report outlines the full set of actuarial assumptions and methods used in the valuation. Schedule B shows the development of the actuarial value of assets. There have been no changes since the previous valuation.
- 4. The projected unit credit actuarial cost method was used to prepare the valuation.
- Comments on the valuation results as of June 30, 2012 are given in Section IV and further discussion of the contributions is set out in Section V.

## SECTION II - MEMBERSHIP DATA

 Data regarding the membership of the System for use as a basis of the valuation were furnished by the County. The valuation included 5,880 active members with annualized compensation totaling \$258,670,354.

THE NUMBER AND ANNUAL BASE EARNINGS
OF ACTIVE MEMBERS
AS OF JUNE 30, 2012

	NUMBER	TOTAL ANNUAL BASE EARNINGS
Plan B	23	\$ 1,588,383
Plan A	2,297	98,129,729
Plan C	3,299	149,244,243
Plan D	<u>261</u>	9,707,999
Total	5,880	\$ 258,670,354



 The following table shows the number of retired members and beneficiaries as of June 30, 2012 together with the amount of their annual retirement benefits payable under the System as of that date.

#### THE NUMBER AND ANNUAL BENEFITS OF RETIRED MEMBERS AND BENEFICIARIES AS OF JUNE 30, 2012

TYPE OF RETIREMENT	PLAN B	PLAN A	PLAN C	PLAN D	TOTAL
Service:			:		
Number	834	1,274	402	0	2,510
Annual Benefits	\$19,666,700	\$19,412,076	\$11,142,628	\$0	\$50,221,404
Disability:	1 1 1				
Number	28	71	0	0	99
Annual Benefits	\$391,784	\$1,606,559	\$0	\$0	\$1,998,343
Survivors:		i i i		1	
Number	290	257	18	0	565
Annual Benefits	\$4,456,805	\$2,888,384	\$307,346	\$0	\$7,652,535
			t 1 1		
Total:			! ! !		
Number	1,152	1,602	420	O	3,174
Annual Benefits	\$24,515,289	\$23,907,019	\$11,449,974	\$0	\$59,872,282

<sup>\*</sup>In addition, there are 268 participants entitled to deferred annual benefits totaling \$5,260,218.

3. Table 1 of Schedule F shows a reconciliation of the membership from June 30, 2011 to June 30, 2012. Tables 2, 3, 4 and 5 of Schedule F show the distribution by age and years of membership service of the number of active members included in the valuation by plan, while Tables 6, 7 and 8 show the number and annual benefits of retired members and beneficiaries included in the valuation by plan, distributed by age.



#### **SECTION III - ASSETS**

As of June 30, 2012, the total market value of assets amounted to \$915,990,681, as reported by the auditor. The actuarial value of assets used for the current valuation was \$1,090,209,692. Schedule B shows the development of the actuarial value of assets as of June 30, 2012.

#### SECTION IV - COMMENTS ON VALUATION

- Schedule A of this report outlines the results of the actuarial valuation. The valuation was
  prepared in accordance with the actuarial assumptions and the actuarial cost method, which are
  described in Schedule D.
- 2. The valuation shows that the liability on account of benefits payable to all Plan B participants amounts to \$234,505,240. The liability on account of benefits payable to all Plan A participants amounts to \$482,618,512. The liability on account of benefits payable to all Plan C participants amounts to \$524,509,780. The liability on account of benefits payable to all Plan D participants amounts to \$331,934. Therefore, the total actuarial accrued liability of the System amounts to \$1,241,965,466. Against these liabilities, the System has present assets for valuation purposes of \$1,090,209,692. When this amount is deducted from the actuarial accrued liability of \$1,241,965,466, there remains \$151,755,774 as the unfunded actuarial accrued liability.
- 3. The normal contribution rate is equal to the actuarial present value of benefits accruing during the current year divided by the annual active members' payroll. The employer normal contribution rate is determined to be 7.49% of payroll.



## **SECTION V - CONTRIBUTIONS PAYABLE**

- The contributions consist of a normal contribution and an accrued liability contribution as determined by actuarial valuation.
- The normal contribution rate is equal to the actuarial present value of benefits accruing during the current year divided by the annual active member's payroll. On the basis of the valuation, the employer normal contribution rate was determined to be 7.49%.
- A contribution of 5.26% of payroll will liquidate the unfunded accrued liability within a weighted
   23-year period.
- The total County contribution rate required for the fiscal year ending June 30, 2014 is, therefore,
   12.75% of payroll.
- 5. The following table summarizes the employer contributions which were determined by the June 30, 2012 valuation and are recommended for use.

## COUNTY ANNUAL REQUIRED CONTRIBUTIONS (ARC) FOR FISCAL YEAR ENDING JUNE 30, 2014

CONTRIBUTION	PERCENTAGE OF ACTIVE MEMBERS' COMPENSATION
Normal	7.49%
Accrued Liability	<u>5.26</u>
Total	12.75%



## SECTION VI - ACCOUNTING INFORMATION

1. Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of the System and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

## NUMBER OF ACTIVE AND RETIRED PARTICIPANTS AS OF JUNE 30, 2012

GROUP	PLAN B	PLAN A	PLAN C	PLAN D	TOTAL
Retired participants and beneficiaries currently receiving benefits	1,152	1,602	420	0	3,174
Terminated participants and beneficiaries entitled to benefits but not yet					
receiving benefits	0	222	46	0	268
Active Participants	<u>23</u>	2,297	<u>3,299</u>	<u>261</u>	<u>5,880</u>
Total	1,175	4,121	3,765	261	9,322

2. Another such item is the schedule of funding progress as shown below.

## SCHEDULE OF FUNDING PROGRESS Dollar Amounts in Thousands

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets <u>(a)</u>	Actuarial Accrued Liability (AAL) PUC (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll <u>( c )</u>	UAAL as a Percentage of Covered Payroll ((b-a)/c)
6/30/2007	\$992,145	\$934,829	\$(57,316)	106.1%	\$249,839	(22.9)%
6/30/2008	1,040,514	1,000,475	(40,039)	104.0	260,108	(15.4)
6/30/2009	1,052,640	1,025,867	(26,773)	102.6	271,888	(9.8)
6/30/2010	1,053,056	1,084,353	31,297	97.1	266,559	11.7
6/30/2011#	1,066,406	1,186,788	120,382	89.9	265,137	45.4
6/30/2012	1,090,210	1,241,966	151,756	87.8	258,670	58.7

<sup>#</sup> Reflects changes in assumptions.

All figures prior to June 30, 2009 were reported by a prior actuarial firm.



3. Another such item is the schedule of employer contributions as shown below.

## SCHEDULE OF EMPLOYER CONTRIBUTIONS

FISCAL YEAR ENDING	ESTIMATED ANNUAL REQUIRED CONTRIBUTION	PERCENT CONTRIBUTED
6/30/2007	\$11,037,956	170%
6/30/2008	12,956,023	145
6/30/2009	15,261,041	123
6/30/2010	16,652,005	116
6/30/2011	18,570,739	101
6/30/2012	23,401,532	100
6/30/2013	31,825,727	N/A

4. The annual required contribution (ARC) as a percentage of payroll, determined in accordance with the parameters of GASB 25/27, is shown below.

EMPLOYER ANNUAL REQUIRED CONTRIBUTION (ARC)	FISCAL YEAR ENDING JUNE 30, 2014
Normal	7.49%
Accrued liability	5.26
Total	12.75%

5. Additional information as of June 30, 2012 follows:

Valuation date	6/30/2012
Actuarial cost method	Projected unit credit
Amortization period	Level dollar closed
Remaining amortization period*	23 years
Asset valuation method	Ten-year smoothed market value
Actuarial assumptions:	
Investment rate of return (includes inflation)	8.00%
Projected salary increases	3.00% - 8.50%
Cost-of-living adjustments	CPI-U up to 1% for Plan B; CPI-U up to 4% for Plan A and Plan C; CPI-U up to 2% for Plan D;

<sup>\*</sup> This period is a weighted average of the amortization for Plan C (14 years) and the amortization of the remaining portion of the unfunded accrued liability (28 years).



## SECTION VII - EXPERIENCE

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is assumed that gains and losses will be in balance over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain/(loss) for the year ended June 30, 2012 is shown below.

		\$ Thousands
(1)	UAAL* as of June 30, 2011	\$ 120,382.1
(2)	Total normal cost from last valuation	33,408.3
(3)	Total actual contributions	34,303.0
(4)	Interest accrual: $(1) \times .08 + [[(2) - (3)] \times .04]$	 9,594.9
(5)	Expected UAAL before changes: $(1) + (2) - (3) + (4)$	\$ 129,082.3
(6)	Change due to plan amendments	0.0
(7)	Change due to actuarial assumptions or methods	0.0
(8)	Expected UAAL after changes: (5) + (6) + (7)	\$ 129,082.3
(9)	Actual UAAL as of June 30, 2012	\$ 151,755.8
(10)	Gain/(loss): (8) – (9)	\$ (22,673.5)
(11)	Gain/(loss) as percent of actuarial accrued liabilities for prior year (\$1,186,788.5)	(1.9)%

<sup>\*</sup>Unfunded actuarial accrued liability.

Valuation Date June 30	Actuarial Gain/(Loss) as a % of Beginning Accrued Liabilities
2010	(5.6)%
2011	(4.4)%
2012	(1.9)%



## SCHEDULE A

## DEVELOPMENT OF THE COUNTY CONTRIBUTION REQUIREMENT AS OF JUNE 30, 2012

(1)	Actu	arial Accrued Liability:		
	(a)	Plan B		
		(i) Actives and Transfers	\$	11,214,289
		(ii) Retired, Beneficiaries, Disabled, Deferred	11	223,290,951
		(iii) Total = (i) + (ii)	\$	234,505,240
	(b)	Plan A		
		(i) Actives and Transfers	\$	220,180,577
		(ii) Retired, Beneficiaries, Disabled, Deferred		262,437,935
		(iii) Total = (i) + (ii)	\$	482,618,512
	(c)	Plan C		
		(i) Actives and Transfers	\$	380,982,124
		(ii) Retired, Beneficiaries, Disabled, Deferred	B <del> </del>	143,527,656
		(iii) Total = (i) + (ii)	\$	524,509,780
	(d)	Plan D		
		(i) Actives and Transfers	\$	331,934
		(ii) Retired, Beneficiaries, Disabled, Deferred	William S	0
		(iii) Total = (i) + (ii)	\$	331,934
	(e)	Total = (a)iii + (b)iii + (c)iii + (d)iii	\$ 1	,241,965,466
(2)	Actua	arial Asset Value	\$ 1	,090,209,692
(3)	(Surp	lus) or Obligation		
	(a)	Remaining Obligation due to Plan C	\$	31,306,595
	(b)	Remaining (Surplus) or Obligation		120,449,179
	(c)	Net (Surplus) or Obligation = $(1)e - (2)$	\$	151,755,774
(4)	Amor	tization of (Surplus) or Obligation		
	(a)	Amortization of Obligation due to Plan C over 20 years from July 1, 2006	\$	3,516,103
	(b)	Amortization of Unfunded Accrued Liability over		
		30 years from July 1, 2010	8	10,091,958
	(c)	Total = (a) + (b)	\$	13,608,061



## SCHEDULE A (continued)

(5)	Tota	al Normal Cost		
	(a)	Plan B	\$	136,877
	(b)	Plan A	•	10,598,770
	(c)	Plan C		21,431,384
	(d)	Plan D		742,101
	(e)	Total = $(a) + (b) + (c) + (d)$	\$	
(6)	Exp	ected Employee Contributions		
	(a)	Plan B Participants	\$	(127,071)
	(b)	Plan A Participants	•	(1,471,946)
	(c)	Plan C Participants		(11,193,318)
	(d)	Plan D Participants		(742,101)
	(e)	Total = $(a) + (b) + (c) + (d)$	\$	(13,534,436)
(7)	Emp	loyer Normal Cost		
	(a)	Plan B = (5)a + (6)a		9,806
	(b)	Plan A = (5)b + (6)b		9,126,824
	(c)	Plan C = (5)c + (6)c		10,238,066
	(d)	Plan D = $(5)d + (6)d$		0
	(e)	Total = $(a) + (b) + (c) + (d)$	\$	19,374,696
(8)	Total	County Contribution = (4) + (7)	\$	32,982,757
(9)	Actua	al Active Payroll		
	(a)	Plan B	\$	1,588,383
	(b)	Plan A		98,129,729
	(c)	Plan C		149,244,243
	(d)	Plan D		9,707,999
	(e)	Total = $(a) + (b) + (c) + (d)$	\$	258,670,354
(10)	Coun	ty Contribution Rate		
	(a)	Normal Cost		7.49%
	(b)	Amortization of Plan C		1.36
	(c)	Amortization of Surplus		3.90
	(d)	Total = $(a) + (b) + (c)$		12.75%



## SCHEDULE B

## **DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS**

(1)	Actuarial Value of Assets as of June 30, 2011	\$	1,066,406,318
(2)	Market Value of Assets as of June 30, 2012	\$	915,990,681
(3)	Market Value of Assets as of June 30, 2011	\$	982,539,680
(4)	Net Cash Flow During Plan Year		
	(a) Contributions	\$	34,303,004
	(b) Benefit Payments		(62,504,954)
1	(c) Administration Expenses		(1,367,740)
	(d) Net Cash Flow: (a) + (b) + (c)	\$	(29,569,690)
(5)	Investment Income		
	(a) Market Total: (2) – (3) – (4)d	\$	(36,979,309)
	(b) Assumed Rate	Τ.	8.00%
	(c) Amount for Immediate Recognition	\$	78,748,830
i.	(d) Amount for Phased-In Recognition: (5)a – (5)c	\$	(115,728,139)
(6)	Recognized Amounts for Plan Year		
	(a) Current Year: 0.10 x (5)d	\$	(11,572,814)
	(b) First Prior Year	Ψ	12,045,965
	(c) Second Prior Year		5,330,118
	(d) Third Prior Year		(29,407,425)
	(e) Fourth Prior Year		(13,897,942)
	(f) Fifth Prior Year		8,985,741
	(g) Sixth Prior Year		1,165,919
	(h) Seventh Prior Year	İ	(820,593)
	(i) Eighth Prior Year		4,392,506
	(j) Ninth Prior Year		(1,597,241)
	(k) Total Recognized Investment Gain/(Loss)	\$	(25,375,766)
(7)	Actuarial Value of Assets as of June 30, 2012		
(')	(1) + (4)d + (5)c + (6)k	e	1 000 200 602
	(1) - (1) - (0) - (0)	\$	1,090,209,692
(8)	Rate of Return on Actuarial Value		4.94%



## SCHEDULE C

## **ASSET INFORMATION**

Receipts	28	
(1) Employee Contributions		E 10.001.470
(2) Employer Contributions		\$ 10,901,472
		23,401,532
(3) Investment Income		(36,979,309)
(4) Total Receipts		\$ (2,676,305)
Disbursements		
(5) Retirement	\$ 57,799,148	
(6) Refunds and Cashouts	4,705,806	
(7) Administrative Expenses	1,367,740	
(8) Total Disbursements		\$ 63,872,694
		+ 00,012,001
(9) Excess of Receipts Over Disbursements: (4) - (8)		\$ (66,548,999)
		Ψ (00,040,000)
Reconciliation of Asset Balances		
(10)Market Value at June 30, 2011		\$982,539,680
(11)Excess of Receipts Over Disbursements		(66,548,999)
(12)Market Value at June 30, 2012		\$915,990,681
		ψ 9 10,9 90,00 1
(13)Estimated Rate of Return on Market Value of Assatz		
(13)Estimated Rate of Return on Market Value of Assets		(3.96)%



#### SCHEDULE D

## **OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS**

INVESTMENT RATE OF RETURN: 8.00% per year (net after administrative expenses).

#### SALARY INCREASES:

Age	Increase per year
20-24	8.5%
25-29	8.0
30-34	7.5
35-39	7.0
40-44	6.0
45-49	5.5
50-54	5.0
55-59	4.5
60-64	4.0
65 +	3.0

EXPENSES: None.

**COST-OF-LIVING ADJUSTMENT:** 1.00% per year, compounded for Plan B. 2.50% per year, compounded for Plan A and Plan C. 2.00% per year, compounded for Plan D.

**PERCENT MARRIED:** 65% of active members are assumed to be married with the male three years older than his spouse.

**ASSETS:** Actuarial value, as developed in Schedule C. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected market value of assets, based on the assumed valuation rate of return. The amount recognized each year is 10% of the difference between market value and expected market value.

VALUATION METHOD: Projected Unit Credit actuarial cost method.



**SEPARATIONS FROM SERVICE:** Representative values of the assumed rates of death, disability, withdrawal, service retirement and early retirement are as follows:

Plan B

	Section 40.5		Annua	l Rate of		
	De	ath*	Disa	ability*	With	drawal**
Age	Male	Female	Male	Female	Male	Female
20	0.031%	0.017%	0.029%	0.030%	17.95%	57.96%
25	0.035	0.019	0.038	0.047	11.94	37.95
30	0.043	0.025	0.048	0.080	8.32	23.94
35	0.075	0.044	0.069	0.136	5.88	16.32
40	0.103	0.065	0.117	0.211	3.43	11.50
45	0.139	0.102	0.202	0.323	2.10	7.45
50	0.192	0.151	0.358	0.533	10.00	10.00
55	0.323	0.259	0.722	0.952	15.00	15.00
60	0.613	0.491	1.256	1.159	20.00	20.00
65	1.170	0.942	1.753	1.358	0.00	0.00
70	2.028	1.625	2.180	1.664	0.00	0.00

<sup>\*75%</sup> of deaths and disabilities are assumed to be line-of-duty for deputy sheriffs. 10% of deaths and disabilities are assumed to be line-of-duty for general employees.

Plan A

			Annua	Rate of		
	De	ath*	Disa	ability*	Withdrawal	Retirement
Age	Male	Female	Male	Female	Territoria	
20	0.031%	0.017%	0.029%	0.030%	12.0%	0.0%
25	0.035	0.019	0.038	0.047	12.0	0.0
30	0.043	0.025	0.048	0.080	8.0	0.0
35	0.075	0.044	0.069	0.136	7.0	0.0
40	0.103	0.065	0.117	0.211	6.0	0.0
45	0.139	0.102	0.202	0.323	5.0	0.0
50	0.192	0.151	0.358	0.533	5.0	0.0
55	0.323	0.259	0.722	0.952	7.0	5.0
60	0.613	0.491	1.256	1.159	7.0	5.0
65	1.170	0.942	1.753	1.358	7.0	12.0
67	1.486	1.180	1.950	1.505	0.0	100.0

<sup>\*90%</sup> of deaths and disabilities are assumed to be non-hazardous duty.

<sup>\*\*</sup>Assume early retirements occur according to withdrawal rates; ultimate retirements at age 65 for General Employees and age 60 for Deputy Sheriffs.



Plan C

				Annual	Rate of			1000年3世
Marine S	Dea	ith*	Disat	oility*	Withdrawal	R	etirement**	
						Before 25 years of service		years of vice
Age	Male	Female	Male	Female			Public Safety	Non- Public Safety
20	0.031%	0.017%	0.029%	0.030%	12.0%			
25	0.035	0.019	0.038	0.047	12.0			
30	0.043	0.025	0.048	0.080	8.0			
35	0.075	0.044	0.069	0.136	7.0			
40	0.103	0.065	0.117	0.211	6.0		20.0%	10.0%
45	0.139	0.102	0.202	0.323	5.0		20.0	10.0
50	0.192	0.151	0.358	0.533	5.0		20.0	10.0
55	0.323	0.259	0.722	0.952	7.0	5.0%	40.0	10.0
60	0.613	0.491	1.256	1.159	7.0	5.0	100.0	20.0
65	1.170	0.942	1.753	1.358	7.0	12.0	100.0	25.0
67	1.486	1.180	1.950	1.505	0.0	100.0	100.0	100.0

Plan D

		Contract of	Ar	nual Rate o	Fall Land		
	Dea	th*	Disal	oility*	Withdrawal	Retir	ement
Age	Male	Female	Male	Female		Public Safety	Non- Public Safety
20	0.031%	0.017%	0.029%	0.030%	12.0%		
25	0.035	0.019	0.038	0.047	12.0		
30	0.043	0.025	0.048	0.080	8.0		
35	0.075	0.044	0.069	0.136	7.0		
40	0.103	0.065	0.117	0.211	6.0		
45	0.139	0.102	0.202	0.323	5.0		
50	0.192	0.151	0.358	0.533	5.0	5.0%	
55	0.323	0.259	0.722	0.952	7.0	12.0	
60	0.613	0.491	1.256	1.159	7.0	100.0	
65	1.170	0.942	1.753	1.358	7.0	100.0	8.0%
67	1.486	1.180	1.950	1.505	7.0	100.0	25.0
70	2.028	1.625	2.180	1.664	0.0	100.0	100.0

<sup>\*90%</sup> of deaths and disabilities are assumed to be non-hazardous duty.

<sup>\*90%</sup> of deaths and disabilities are assumed to be non-hazardous duty.

\*\*Assume that the retirement rate for employees with at least 25 years of service increases by 50% in the year following the Transition Period.



**DEATHS AFTER RETIREMENT:** The RP-2000 Mortality Table Projected to 2006 is used for the period after retirement and for dependent beneficiaries. Special rates are used for the period after disability retirement. Representative values of the assumed rates of death after service and disability retirement are as follows:

	AND AN ARTHUR	Annual Rate	of Death After	
	Service F	Retirement	Disability	Retirement
Age	Male	Female	Male	Female
50	0.192	0.151	4.537	3.363
55	0.323	0.259	5.690	3.701
60	0.613	0.491	6.922	4.122
65	1.170	0.942	8.219	4.527
70	2.028	1.625	9.299	5.063
75	3.477	2.678	11.203	6.349
80	6.060	4.399	11.360	8.472
85	10.619	7.470	15.253	11.480



#### **SCHEDULE E**

## SUMMARY OF MAIN SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

#### PLAN B

Eligibility

All salaried employees hired prior to December 1, 1978 were eligible at date of employment and had to apply for membership as a condition of such employment. "Employee" means any person employed on a regular full-time basis, excluding officials or employees of the Board of Education of Shelby County. Entry in the System was optional for individuals employed on a per diem basis. Employees not able to complete the required number of years of service prior to mandatory retirement age could not join the plan.

Final Average Earnings

If a participant had 10 years of credited service on October 1, 1977, the greater of:

- Average monthly earnings for the five consecutive years of County Service during which earnings was the highest or,
- Average monthly earnings for the 12 months preceding the date of retirement.

If the participant did not have 10 years of service on October 1, 1977, the average monthly earnings for the 36 consecutive months during which the employee received his highest earnings.

### Normal Retirement Benefit

Eligibility

25 years of credited service or age 60 (age 55 if Deputy Sheriff) and 10 years of credited service.

Benefit

2.7% of final average earnings multiplied by years of credited service not in excess of 25 plus 1% of final average earnings multiplied by years of credited service greater than 25 but less than 35. The maximum benefit is 77.5% of final average earnings. The minimum monthly benefit is \$300 (\$150 monthly if jointly employed by the City and County).

### Disability Retirement

Eligibility

After January 1, 2007, only participants who are disabled in the line-of-duty are eligible to receive a disability pension.

Benefit

The greater of:

- 1) The Normal Retirement Benefit (if participant is then eligible for a Normal Retirement Benefit) or.
- 2) 50% of Final Average Earnings.



#### PLAN B

#### Termination of Employment

If employment is terminated prior to the completion of 10 years of credited service, a refund of the participant's contributions, without interest, is payable.

If employment is terminated after completion of 10 years of credited service, a deferred vested benefit equal to the participant's accrued benefit at date of termination is paid commencing at age 60. Benefits are payable to the surviving spouse after age 60 of the participant. The participant may elect to withdraw his contributions, without interest, instead of receiving the deferred monthly benefit at age 60.

If a participant dies before completing 10 years of credited service and does not die in line-of-duty, his beneficiary will receive a refund of the participant's contributions, without interest.

If a participant dies after completing 10 years of credited service or after retirement the member's eligible spouse will receive the participant's accrued benefit until death.

If death occurs in line-of-duty, a benefit of 50% of the participant's final average earnings will be paid to the spouse until death.

Each year the County contributes an amount determined actuarially to sustain the plan on an actuarially determined funding basis. Employees contribute 8% of earnings to the retirement plan for the first 35 years. After 35 years, employees contribute 8% of any increases in pay.

A maximum of 1% annual adjustment based on CPI changes for the following:

- Retired participants who have attained age 65, completed 25 years
  of credited service prior to termination, have been retired and
  receiving benefits for 5 years, and have a monthly pension for the
  first month in which they are eligible for the COLA less than \$3,000.
- 2) Disability retired participants who have a monthly pension for the first month in which they are eligible for the COLA less than \$3,000.
- 3) Surviving Spouses who have attained age 65, where the original participant completed 25 years of credited service prior to termination or whose death was a line of duty death or whose pension had been a disability pension, where the original participant's termination was at least 5 years prior to receiving the COLA, and who have a monthly pension for the first month in which they are eligible for the COLA less than \$3,000.
- 4) Surviving children where the original participant completed 25 years of credited service prior to termination or whose death was a line of duty death or whose pension had been a disability pension, where the participant's termination was at least 5 years prior to receiving the COLA, and who have a monthly pension for the first month in which they are eligible for the COLA less than \$3,000.

In no event, however, will the Plan B benefits exceed 100% of final average pay.

Death Benefit

Contributions

Cost of Living Adjustment



#### PLAN A

Eligibility

All employees hired after December 1, 1978 and prior to March 1, 2005 including all full-time, part-time and elected employees, and members of Plan B electing to transfer to Plan A and employees of all joint City/County agencies administered by Shelby County participate. CETA employees, Board of Education employees, employees electing Social Security coverage, and Joint City/County agencies not administered by Shelby County cannot participate.

Public Safety Employees

Public Safety Employees, hired prior to March 1, 2005, who did not elect to transfer to Plan C, effective September 1, 2005, are no longer eligible to retire under the 25 year-and-out program and no longer contribute to Plan A.

Final Average Earnings

The average over the three highest consecutive years of earnings.

Normal Retirement Benefit

Eligibility

Age 65 regardless of amount of credited service.

Benefit

Final average earnings multiplied by a percentage from Table A, which is included in the appendix to the plan. Listed below is a summary of Table A:

Years of Service	Benefit Accrual Per Year
1 – 7	1.5%
8 – 13	2.0
14 – 20	2.5
21 – 25	3.0
26 – 30	3.0
31 – 35	2.5
36 – 38	2.5
39 and above	0.0

Early Retirement Benefit

Eligibility

Age 55 and completion of 7.5 years of credited service.

Benefit

The Normal Retirement Benefit reduced 2.5% for each year less than age 65.

Disability Retirement

Eligibility

After January 1, 2002, no disability benefits are provided by the Plan. Upon reaching age 65, a disabled participant will have any disability benefit recomputed as a normal retirement benefit payable by the Plan.



#### PLAN A

Benefit

The Normal Retirement Benefit calculated with credited service including time while disabled.

Termination of Employment

If employment is terminated prior to the completion of 7.5 years of credited service, no benefit is payable.

If employment is terminated after completion of 7.5 years of credited service, a deferred vested benefit equal to the participant's accrued benefit at date of termination is paid commencing at age 65. Alternatively, the participant may elect a vested early benefit payable beginning at age 55 which is actuarially equivalent.

If a participant dies, the participant's eligible spouse shall receive 45% of final average earnings for two years after the participant's death.

If death occurs in line-of-duty, or, if not line-of-duty, the participant before death was age 55 and completed 15 years of credited service, the participant's eligible spouse shall receive 75% of the participant's pension calculated as if the participant had retired immediately before death. This benefit shall be payable when the spouse reaches age 65. The participant's final average earnings is adjusted by the COLA from the participant's death until the spouse reaches age 65.

Employees contribute 0.5% of earnings in 2011, 1.0% of earnings in 2012, 1.5% of earnings in 2013 and 2.0% of earnings in 2014 and thereafter.

A maximum of 4% annual adjustment based on CPI changes applies to the following benefits:

- 1) Retired participants after age 65
- 2) Disabled participants
- 3) Survivor benefits for dependent children
- Survivor benefits for spouses under age 65 receiving the two year temporary benefit
- 5) Survivor benefits for spouses age 65 and over.

In no event, however, will the Plan A benefits exceed 100% of final average pay except as follows for an employee who retires with 40 or more years of service:

Maximum Benefit
124%
115%
106%

Death Benefit

Contributions

Cost of Living Adjustment



#### PLAN C

Eligibility

All employees participate who are hired on or after March 1, 2005 but before July 1, 2011, including all full-time, part-time and elected employees, and employees of all joint City/County agencies administered by Shelby County, and members of Plan A electing to transfer to Plan C. CETA employees, Board of Education employees, employees electing Social Security coverage, and Joint City/County agencies not administered by Shelby County cannot participate.

Final Average Earnings

The average over the three highest consecutive years of earnings.

Alternate Benefit Accrual Account

Participants contribute 6% of earnings prior to 2011, 6.5% of earnings in 2011, 7.0% of earnings in 2012, 7.5% of earnings in 2013 and 8.0% of earnings in 2014 and thereafter to fund the Plan. Participants are always fully vested in these contributions. Prior to January 1, 2011, the employer matches 50% of each contribution the participant makes to the plan. Effective January 1, 2011, employer matching contributions are frozen at 3%. The participant becomes fully vested in the employer contributions upon reaching 7.5 years of credited service. The total of these two contribution amounts will comprise the participant's Alternate Benefit Accrual Account. The investment return on these contributions and match is 2% per annum.

#### Normal Retirement Benefit

Eligibility

Age 65 or upon completion of 25 years of credited service.

Benefit

The greater of:

- 1) 2.35% of final average earnings multiplied by credited service (up to 35 years) or.
- 2) The life annuity equivalent of the participant's Alternate Benefit Accrual Account

#### Early Retirement Benefit

Eligibility

Age 55 and completion of 7.5 years of credited service.

Benefit

The greater of:

- Final average earnings multiplied by credited service (up to 35 years) and a percentage from Table ERP, which is included as part of the plan, or
- The life annuity equivalent of the participant's Alternate Benefit Accrual Account.

#### Disability Retirement

Eligibility

No disability benefits are provided by the Plan except for transfers. Upon reaching age 65, a disabled participant will have any disability benefit recomputed as a normal retirement benefit payable by the Plan.

Benefit

The Normal Retirement Benefit calculated with credited service including time while disabled.



#### PLAN C

### Termination of Employment

If employment is terminated prior to the completion of 7.5 years of credited service, the participant is entitled to receive the vested portion of the participant's alternate benefit accrual account as a lump sum payment.

If employment is terminated after completion of 7.5 years of credited service, a deferred vested benefit equal to the participant's accrued benefit at date of termination is paid commencing at age 65. Alternatively, the participant may elect a vested early benefit payable beginning at age 55 which is actuarially equivalent.

Death Benefit

If a participant dies before completion of 15 years of credited service and the death occurs in line-of-duty, or, if not line of duty, the participant had completed 7.5 years of credited service before death, the participant's eligible beneficiary shall receive the vested portion of the participant's alternate benefit accrual account as a lump sum payment.

If a participant dies after completion of 15 years of credited service the participant's eligible spouse shall receive 75% of the participant's pension calculated as if the participant had retired immediately before death. This benefit shall be payable when the spouse reaches age 65. The participant's final average earnings is adjusted by the COLA from the participant's death until the spouse reaches age 65.

Contributions

See Alternate Benefit Accrual Account.

Cost of Living Adjustment

A maximum of 4% annual adjustment based on CPI changes applies to the following benefits:

- 1) Retired participants after age 65
- 2) Disabled participants
- 3) Survivor benefits for dependent children
- 4) Survivor benefits for spouses age 65 and over.

In no event, however, will the Plan C benefits exceed 100% of final average pay.



#### PLAN D

Eligibility

All employees participate who are hired on or after July 1, 2011, including all full-time, part-time and elected employees, and employees of all joint City/County agencies administered by Shelby County. CETA employees, Board of Education employees, employees electing Social Security coverage, and Joint City/County agencies not administered by Shelby County cannot participate.

Final Average Earnings

The average over the 5 highest consecutive years of earnings.

Normal Retirement Benefit

Eligibility

Age 67 with at least 7.5 years of credited service for general employees and age 55 with at least 7.5 years of credited service for public safety employees.

Benefit

Final average earnings multiplied by credited service multiplied by 2.175%.

Early Retirement Benefit

Eligibility

Age 62 with at least 7.5 years of credited service for general employees and age 50 with the last 20 years of credited service being in a public safety classification for public safety employees.

Benefit

Final average earnings multiplied by credited service and a percentage from Table ERP-S and Table ERP-PS, which is included as part of the plan.

Disability Retirement

Eligibility

No disability benefits are provided by the Plan except for transfers. Upon reaching age 65, a disabled participant will have any disability benefit recomputed as a normal retirement benefit payable by the Plan.

Benefit

The Normal Retirement Benefit calculated with credited service including time while disabled.

Termination of Employment

If employment is terminated prior to the completion of 7.5 years of credited service, the participant is entitled to receive the vested portion of the participant's alternate benefit accrual account as a lump sum payment.

For general employees, if employment is terminated after completion of 7.5 years of credited service, a deferred vested benefit equal to the participant's accrued benefit at date of termination is paid commencing at age 67. Alternatively, the participant may elect a vested early benefit payable beginning at age 62 which is actuarially equivalent.



#### PLAN D

For public safety employees, if employment is terminated after completion of 7.5 years of credited service, a deferred vested benefit equal to the participant's accrued benefit at date of termination is paid commencing at age 55. Alternatively, the participant may elect a vested early benefit payable beginning at age 50 which is actuarially equivalent.

Death Benefit

If a participant dies before completion of 15 years of credited service and the death occurs in line-of-duty, or, if not line of duty, the participant had completed 7.5 years of credited service before death, the participant's eligible beneficiary shall receive the amount of the participant contribution account.

If a participant dies after completion of 15 years of credited service the participant's eligible spouse shall receive 75% of the participant's pension calculated as if the participant had retired immediately before death. This benefit shall be payable when the spouse reaches age 67. The participant's final average earnings is adjusted by the COLA from the participant's death until the spouse reaches age 67.

Contributions

Employees contribute 8.0% of earnings.

Cost of Living Adjustment

A maximum of 2% annual adjustment based on CPI changes applies to the following benefits:

- 1) Retired participants after age 65
- 2) Disabled participants
- 3) Survivor benefits for dependent children
- 4) Survivor benefits for spouses age 65 and over.

In no event, however, will the Plan D benefits exceed 100% of final average pay.



## SCHEDULE F

TABLE 1

## **RECONCILIATION OF DATA**

		Actives	Retirees	<u>Disabled</u>	<u>Beneficiaries</u>	<u>Vested</u> <u>Terms</u>	<u>Total</u>
1.	Headcounts as of June 30, 2011	6,049	2,376	109	571	294	9,399
2.	Change in status during the year:	-					
	<ul><li>a. Death</li><li>c. Disabled</li></ul>	(13)	(68)	(2)	(33)	(6)	(122)
	d. Retired	(163)	199	(8)		(28)	
	e. Terminated Vested	(47)				47	
	f. Terminated Not Vested	(216)					(216)
	g. Benefits Expired/Refund				(14)	(41)	(55)
3.	New member due to:	l l					
	a. New Hires	267					267
	b. Rehires	3				(3)	
	c. Death of Participant				42		42
	d. Adjustments		3		(1)	5	7
4.	Headcounts as of June 30, 2012	5,880	2,510	99	565	268	9,322



### PLAN B

## SCHEDULE OF ACTIVE MEMBERS BY AGE AND SERVICE AS OF JUNE 30, 2012

Attained Age				1.14	Comple	ted Years o	f Service				
. Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	≥ 40	Total
						20 (0 2 )	20 10 20	30 10 34	33 10 33	240	Total
Under 25					,						
Avg. Pay											
25 to 29											
Avg. Pay											
30 to 34											
Avg. Pay	İ l										
		7 d 6 d									
35 to 39											
Avg. Pay											
40 to 44			4						l):		
Avg. Pay											
45 to 49											
Avg. Pay			3			ě.			1		
- (100) <del>-</del> (100) (100 <b>-</b> (100)					-						
50 to 54								1			1
Avg. Pay								52,480			52,480
55 to 59				- 4					4		4
Avg. Pay									54,495		54,495
60 to 64				ľ							
Avg. Pay				- 1				52,366	4 87,828	3	10
<del>2 </del>								32,300	07,020	83,449	75,876
65 to 69					ļ		l			1	1
Avg. Pay										96,508	96,508
70 & up			ŀ			į		2	2	3	7
Avg. Pay								39,479	106,470	56,919	66,094
Tet-1											
Total Avg. Pay	1							6	10	70.045	23
. reg. 1 dy								48,090	78,223	73,945	69,060

Average Age 65.3

Average Service



TABLE 3

## PLAN A

## SCHEDULE OF ACTIVE MEMBERS BY AGE AND SERVICE AS OF JUNE 30, 2012

Attained Age	a de la com				Comple	ted Years o	f Service			A CONTRACTOR	
WAG.	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	≥ 40	Total
					1						
Under 25 Avg. Pay											
Avg. Fay			-	-							
25 to 29		9	1					v)			
Avg. Pay			40,213					A KI			40,213
		7									10,210
30 to 34			28	16							44
Avg. Pay			31,834	35,840	-						33,290
35 to 39			59	120	40						V200 200 000
Avg. Pay			35,760	136 40,466	16 47,095						211
			00,700	40,400	47,085						39,653
40 to 44			76	175	75	30					356
Avg. Pay			35,400	43,234	48,246	45,968	A				42,848
					1900						
45 to 49			86	147	73	71	10				387
Avg. Pay			34,167	43,795	44,135	44,733	42,312			2	41,854
50 to 54	į.		99	143	78	82	27	91			438
Avg. Pay			32,432	41,815	45,782	47,236	49,392	42,684			41,901
											1,16-1
55 to 59		Ĩ	65	84	58	72	50	43			372
Avg. Pay			36,908	43,544	45,199	46,450	50,176	42,356			43,959
60 to 64			70	62	49	59	0.5	40			
Avg. Pay		ľ	34,266	45,220	43,575	49,308	35 47,749	43 50,943	İ	*	318 44,366
			- 1,	,	10,010	10,000	47,140	30,343			44,300
65 to 69			24	17	13	34	24	7			119
Avg. Pay			36,365	42,021	44,873	49,780	56,568	53,821			47,037
70.0											
70 & up Avg. Pay		İ	9	8	7	16	6	5			51
Avy. Fay			31,586	46,080	58,813	45,440	57,361	52,016			46,978
Total			517	788	369	364	152	107			2,297
Avg. Pay			34,498	42,645	45,844	46,983	50,254	47,036			42,721

Average Age 51.2

Average Service



## **PLAN C**

## SCHEDULE OF ACTIVE MEMBERS BY AGE AND SERVICE AS OF JUNE 30, 2012

Attained Age	Completed Years of Service										
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	<u>≥</u> 40	Total
200 00 00000											1
Under 25		20						ļ.			20
Avg. Pay		31,488									31,488
25 to 29	2	150	23	1				1			
Avg. Pay	11,379	36,728	38,237	28,237				en Tig			176 36,589
					*						30,369
30 to 34		167	117	38							322
Avg. Pay		36,882	40,767	45,059							39,258
35 to 39		4.40									
Avg. Pay	31,052	146 38,565	135 44,689	104	23	1					412
Avg. ray	31,002	30,303	44,009	43,137	49,921	58,739					42,354
40 to 44	1	143	129	126	102	50					551
Avg. Pay	26,125	38,490	42,467	45,174	51,372	48,778					44,246
											1,110
45 to 49		105	89	87	82	209	38	1			611
Avg. Pay	-	37,819	39,962	43,567	49,367	49,922	50,402	65,001			45,466
50 to 54		101	68	43	50	450	70				
Avg. Pay		38,650	41,785	46,859	48,664	153 48,865	73 55,401	19 62,291			507
		,	,	10,000	10,004	40,000	33,401	02,291			47,135
55 to 59		78	61	44	23	76	70	49			401
Avg. Pay		42,823	43,577	45,708	46,717	51,630	53,319	58,970			48,952
00.1- 04											
60 to 64 Avg. Pay	ŀ	40 41,060	48	29	22	19	33	29			220
Avg. ray		41,000	54,774	53,334	67,267	53,798	58,040	61,042			54,572
65 to 69		16	9	14	10	5	1	4	1		59
Avg. Pay		55,724	45,253	56,429	67,781	46,423	109,182	71,277			57,510
											07,010
70 & up	1	6	3	4	3	3	1				20
Avg. Pay		32,342	58,329	63,423	56,833	51,425	50,988				49,925
Total	6	972	600	400	845	-15					
Avg. Pay	23,673	38,452	682 43,150	490 45,562	315 51,657	516 49,884	216	102			3,299
	20,070	30,432	40,100	40,002	31,037	49,084	54,478	60,719			45,239

Average Age 45.7

Average Service



### PLAN D

## SCHEDULE OF ACTIVE MEMBERS BY AGE AND SERVICE AS OF JUNE 30, 2012

Attained				a est e la si	Comple	ted Years o	f Service	View in the			
Age	de disvantes e										
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	≥ 40	Total
100 N 100 N 100 N			g								
Under 25	30	,									30
Avg. Pay	30,412										30,412
25 to 29	69	4									
Avg. Pay	33,158	1 28,222			Î						70
/ tvg. r dy	33,130	20,222					<u> </u>				33,087
30 to 34	50	4									54
Avg. Pay	36,333	30,506									35,901
											00,001
35 to 39	22				l.						22
Avg. Pay	37,960										37,960
		700				18.50180					
40 to 44	19	1									20
Avg. Pay	40,647	52,739			2						41,251
45 to 49	20	2									112000
Avg. Pay	43,146	23,070				9					22
- · · · · · · · · · · ·	10,110	20,010									41,321
50 to 54	14			1							14
Avg. Pay	42,931										42,931
		ĺ									
55 to 59	15			1							15
Avg. Pay	39,692										39,692
60 to 64	40		_						38-31 (38-34)		
Avg. Pay	10 56,201										10
Avg. ray	30,201										56,201
65 to 69	4					İ					
Avg. Pay	53,312								2		53,312
-											33,312
70 & up	İ	ļ	İ								
Avg. Pay											
2=1 (0 Xx			mestadi)								
Total	253	8				ľ	1	ĺ			261
Avg. Pay	37,387	31,141									37,195

Average Age 36.1

Average Service



## PLAN B

## SCHEDULE OF RETIRED MEMBERS AND BENEFICIARIES AS OF JUNE 30, 2012

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefit
Under 50	1	\$ 7,369	\$ 7,369
50 – 54	12	274,530	22,878
55 – 59	60	1,855,879	30,931
60 – 64	140	3,996,262	28,545
65 – 69	198	5,295,922	26,747
70 – 74	169	3,917,700	23,182
75 – 79	161	3,228,784	20,055
80 & Over	411	5,938,843	14,450
Total	1,152	\$ 24,515,289	\$ 21,281



TABLE 7

#### **PLAN A**

## SCHEDULE OF RETIRED MEMBERS AND BENEFICIARIES AS OF JUNE 30, 2012

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefit
Under 50	62	\$ 1,013,986	\$ 16,355
50 — 54	20	440,137	22,007
55 <b>–</b> 59	136	1,997,249	14,686
60 – 64	294	4,435,513	15,087
65 – 69	381	6,233,710	16,361
70 – 74	313	4,436,822	14,175
75 – 79	223	3,264,972	14,641
80 & Over	173	2,084,630	12,050
Total	1,602	\$ 23,907,019	\$ 14,923

In addition, there are 222 participants entitled to deferred annual benefits totaling \$3,849,399.



TABLE 8

PLAN C

## SCHEDULE OF RETIRED MEMBERS AND BENEFICIARIES AS OF JUNE 30, 2012

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefit
Under 50	19	\$ 425,482	\$ 22,394
50 – 54	80	2,217,272	27,716
55 – 59	157	4,599,835	29,298
60 – 64	117	3,295,508	28,167
65 – 69	38	785,159	20,662
70 – 74	5	70,777	I 14,155
75 – 79	4	55,941	13,985
80 & Over		_	
Total	420	\$ 11,449,974	\$ 27,262

In addition, there are 46 participants entitled to deferred annual benefits totaling \$1,410,819.



## SCHEDULE G

## ANALYSIS OF FINANCIAL EXPERIENCE

## Gains & Losses in Accrued Liabilities Resulting from Difference Between Assumed Experience & Actual Experience (\$ Thousands)

Type of Activity	\$ Gain (or Loss) For Year Ending 6/30/2012	\$ Gain (or Loss) For Year Ending 6/30/2011
Age & Service Retirements. If members retire at older ages, there is a gain. If younger ages, a loss.	\$ (5,017.6)	\$ (9,035.6)
<b>Disability Retirements.</b> If disability claims are less than assumed, there is a gain. If more claims, a loss.	1,231.6	850.3
<b>Death-in-Service Benefits.</b> If survivor claims are less than assumed, there is a gain. If more claims, there is a loss.	(1,102.4)	(1,072.7)
Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If smaller releases, a loss.	(5,614.4)	(6,331.9)
Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss.	17,764.0	11,952.4
New Members. Additional unfunded accrued liability will produce a loss.	(351.9)	(816.4)
Investment Income. If there is a greater investment income than assumed, there is a gain. If less income, a loss.	(30,717.4)	(40,468.5)
<b>Death After Retirement.</b> If retirants live longer than assumed, there is a loss. If not as long, a gain.	2,661.4	1,103.3
Other. Miscellaneous gains and losses resulting from changes in valuation software, data adjustments, timing of financial transactions, etc.	(1,526.8)	(4,226.4)
Gain (or Loss) During Year From Financial Experience	<u>\$ (22,673.5)</u>	<u>\$ (48,045.5)</u>
<b>Non-Recurring Items.</b> Adjustments for plan amendments, assumption changes, or method changes.	0.0	(34,704.3)
Composite Gain (or Loss) During Year	\$ (22,673.5)	<u>\$ (82,749.8)</u>